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*           U. S.   P A T E N T   T E X T   F I L E           *
*                                                                 *
*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT           *
*   THROUGH APRIL 27, 1999.                                     *
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=> s oligonucleotide (W) purif?

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      12286 OLIGONUCLEOTIDE
      182666 PURIF?
L1      131 OLIGONUCLEOTIDE (W) PURIF?

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=> s oligonucleotide# (W) purif?

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      13954 OLIGONUCLEOTIDE#
      182666 PURIF?
L2      152 OLIGONUCLEOTIDE# (W) PURIF?

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=> s anion(W)exchange

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      48428 ANION
      162940 EXCHANGE
L3      9901 ANION(W)EXCHANGE

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=> s L3 and L2

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L4      31 L3 AND L2

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=> d L4 1-31

1. 5,859,223, Jan. 12, 1999, Soluble CR1 derivatives; Danuta Ewa Irena Mossakowska, et al., 536/23.5; 435/69.2, 252.1, 252.33, 320.1; 530/380 [IMAGE AVAILABLE]

2. 5,840,999, Nov. 24, 1998, Asymmetric benzoxanthene dyes; Scott C. Benson, et al., 568/735, 737, 753, 757 [IMAGE AVAILABLE]

3. 5,792,456, Aug. 11, 1998, Mutant BR96 antibodies reactive with human carcinomas; Dale Yelton, et al., 424/133.1, 130.1, 141.1; 530/387.1, 387.3, 388.1, 388.8, 391.3, 391.7 [IMAGE AVAILABLE]

4. 5,728,821, Mar. 17, 1998, Mutant BR96 antibodies reactive with human carcinomas; Dale Yelton, et al., 536/23.53; 424/141.1, 155.1; 435/70.21, 328, 344; 530/387.3, 388.8 [IMAGE AVAILABLE]

5. 5,677,289, Oct. 14, 1997, Method of cleaving specific strands of RNA and medical treatments thereby; Paul Torrence, et al., 514/44; 435/6, 91.1, 199, 375; 436/94; 514/46, 47; 536/24.5, 25.2 [IMAGE AVAILABLE]

6. 5,677,274, Oct. 14, 1997, Anthrax toxin fusion proteins and related methods; Stephen H. Leppla, et al., 514/2 [IMAGE AVAILABLE]

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8. 5,661,134, Aug. 26, 1997, Oligonucleotides for modulating Ha-ras or Ki-ras having phosphorothioate linkages of high chiral purity; Phillip

Dan Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]

9. 5,654,284, Aug. 5, 1997, Oligonucleotides for modulating RAF kinase having phosphorothioate linkages of high chiral purity; Phillip Dan Cook, et al., 514/44; 536/22.1, 23.1, 23.7, 23.72, 24.32 [IMAGE AVAILABLE]

10. 5,635,488, Jun. 3, 1997, Compounds having phosphorodithioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43; 536/25.33, 25.34 [IMAGE AVAILABLE]

11. 5,620,963, Apr. 15, 1997, Oligonucleotides for modulating protein kinase C having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]

12. 5,612,468, Mar. 18, 1997, Pteridine nucleotide analogs as fluorescent DNA probes; Mary E. Hawkins, et al., 536/22.1, 24.3 [IMAGE AVAILABLE]

13. 5,607,923, Mar. 4, 1997, Oligonucleotides for modulating cytomegalovirus having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 912, 914; 536/23.1, 25.34 [IMAGE AVAILABLE]

14. 5,602,000, Feb. 11, 1997, Method for enzymatic synthesis of oligonucleotides; Edward D. Hyman, 435/91.1; 424/94.1; 435/5, 6, 91.2 [IMAGE AVAILABLE]

15. 5,599,797, Feb. 4, 1997, Oligonucleotides having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]

16. 5,596,091, Jan. 21, 1997, Antisense oligonucleotides comprising 5-aminoalkyl pyrimidine nucleotides; Christopher Switzer, 536/24.5; 435/6, 91.1; 536/23.1, 24.1, 24.3 [IMAGE AVAILABLE]

17. 5,591,631, Jan. 7, 1997, Anthrax toxin fusion proteins, nucleic acid encoding same; Stephen H. Leppla, et al., 435/252.3, 320.1; 530/350, 402; 536/23.4, 23.7 [IMAGE AVAILABLE]

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20. 5,576,302, Nov. 19, 1996, Oligonucleotides for modulating hepatitis C virus having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]

21. 5,525,711, Jun. 11, 1996, Pteridine nucleotide analogs as fluorescent DNA probes; Mary E. Hawkins, et al., 536/22.1; 435/6; 436/501; 536/23.1, 25.3, 25.31, 25.32, 25.33, 25.34, 26.1, 26.2, 27.1, 27.13, 27.2, 28.1, 28.4, 55, 84 [IMAGE AVAILABLE]

22. 5,525,494, Jun. 11, 1996, Amplification processes; Clive R. Newton, 435/91.2; 536/24.33 [IMAGE AVAILABLE]

23. 5,514,569, May 7, 1996, Method for enzymatic synthesis of

oligonucleotides using phosphate precipitation; Edward D. Hyman, 435/91.2, 5, 6, 91.1 [IMAGE AVAILABLE]

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25. 5,468,632, Nov. 21, 1995, Recombinant DNA compounds and expression vectors encoding para-nitrobenzyl esterase activity from bacillus; Cathleen A. Cantwell, et al., 435/479, 43, 69.1, 71.2, 197, 252.3, 252.33, 320.1, 488; 536/23.2 [IMAGE AVAILABLE]

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27. 5,436,143, Jul. 25, 1995, Method for enzymatic synthesis of oligonucleotides; Edward D. Hyman, 435/91.2, 91.1, 91.21, 91.3, 91.31; 536/24.33, 25.3, 25.31 [IMAGE AVAILABLE]

28. 5,298,392, Mar. 29, 1994, Process for detection of water-borne microbial pathogens and indicators of human fecal contamination in water samples and kits therefor; Ronald M. Atlas, et al., 435/6; 436/177, 501; 536/23.1 [IMAGE AVAILABLE]

29. 5,179,196, Jan. 12, 1993, Purification of proteins employing CTAP-III fusions; Paul H. Johnson, et al., 530/350; 435/69.7; 530/412, 415, 416, 417 [IMAGE AVAILABLE]

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31. 5,164,304, Nov. 17, 1992, Method and vectors for stabilizing hirudin and human laminin B.sub.1 expression; Paul H. Johnson, et al., 435/69.1, 235.1, 252.3, 252.33, 320.1, 480; 530/350 [IMAGE AVAILABLE]

=> s DNA(W)purif?

31018 DNA
182666 PURIF?
L5 829 DNA(W) PURIF?

=> s anion(W)exchange and L5

48428 ANION
162940 EXCHANGE
9901 ANION(W) EXCHANGE
L6 100 ANION(W) EXCHANGE AND L5

=> d L6 1-100

1. 5,891,631, Apr. 6, 1999, Methods relating tosterol regulatory element binding proteins; Joseph L. Goldstein, et al., 435/6, 7.1, 367, 369 [IMAGE AVAILABLE]

2. 5,883,081, Mar. 16, 1999, Isolation of novel HIV-2 proviruses; Gunter Kraus, et al., 514/44; 424/160.1; 435/69.1, 320.1; 530/388.35; 536/23.1 [IMAGE AVAILABLE]

3. 5,880,328, Mar. 9, 1999, DNA encoding plant chitinases; John A. Ryals, et al., 435/69.1, 200, 209, 320.1, 418, 419; 536/23.2, 23.6 [IMAGE AVAILABLE]
4. 5,879,893, Mar. 9, 1999, Method of screening for human protein kinase C inhibitor homolog; Janice Au-Young, et al., 435/6; 536/23.1, 23.5, 24.3, 24.31 [IMAGE AVAILABLE]
5. 5,876,999, Mar. 2, 1999, Preparation of novel streptokinase mutants as improved thrombolytic agents; Hua-Lin Wu, 435/216, 69.1, 71.1, 71.2, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]
6. 5,874,535, Feb. 23, 1999, Human leptin receptor gene-related protein; Bernard Bailleul, et al., 530/350, 300, 351, 399 [IMAGE AVAILABLE]
7. 5,874,242, Feb. 23, 1999, Efficient translation in eukaryotic and prokaryotic systems; Kojo A. Mensa-Wilmot, 435/69.1, 252.3, 252.33, 320.1, 325, 410; 536/23.1, 24.1 [IMAGE AVAILABLE]
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10. 5,869,633, Feb. 9, 1999, Thrombin receptor homolog polynucleotide; Roger Coleman, et al., 536/23.1; 530/350; 536/23.5, 24.5 [IMAGE AVAILABLE]
11. 5,869,310, Feb. 9, 1999, Isolated agarase enzyme from flavobacterium sp. strain NR19, cloned genes therefor, and expression thereof in transformed host cells; Mark W. Knuth, et al., 435/207, 200, 850 [IMAGE AVAILABLE]
12. 5,866,543, Feb. 2, 1999, Nematode-extracted anticoagulant protein; George Phillip Vlasuk, et al., 514/12; 530/324, 350 [IMAGE AVAILABLE]
13. 5,866,542, Feb. 2, 1999, Nematode-extracted anticoagulant protein; George Phillip Vlasuk, et al., 514/12; 530/324, 350 [IMAGE AVAILABLE]
14. 5,866,393, Feb. 2, 1999, Haloperoxidases from curvularia verruculosa and nucleic acids encoding same; Claus Fuglsang, et al., 435/192, 911; 536/23.2 [IMAGE AVAILABLE]
15. 5,866,332, Feb. 2, 1999, Human myeloid terminal differentiation response gene; Benjamin Graeme Cocks, et al., 435/6, 69.1, 91.2, 252.3, 320.1, 325; 514/44; 536/23.5 [IMAGE AVAILABLE]
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17. 5,863,894, Jan. 26, 1999, Nematode-extracted anticoagulant protein; George Phillip Vlasuk, et al., 514/12; 530/324, 350 [IMAGE AVAILABLE]
18. 5,861,294, Jan. 19, 1999, Adenosine kinase polypeptides; Marlon Daniel Cowart, et al., 435/194, 69.1, 320.1, 325; 536/23.1, 23.2, 24.3 [IMAGE AVAILABLE]
19. 5,859,223, Jan. 12, 1999, Soluble CR1 derivatives; Danuta Ewa Irena

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21. 5,858,684, Jan. 12, 1999, Method of screening calcium receptor-active molecules; Edward F. Nemeth, et al., 435/7.2, 7.1, 69.1, 252.3, 320.1, 325; 530/300, 324, 350; 536/23.1, 23.5 [IMAGE AVAILABLE]
22. 5,858,368, Jan. 12, 1999, Vaccine comprising a baculovirus produced influenza hemagglutinin protein fused to a second protein; Gale E. Smith, et al., 424/192.1, 196.11, 199.1, 210.1, 278.1, 280.1, 816; 435/69.3; 530/396, 402, 412, 416, 417 [IMAGE AVAILABLE]
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24. 5,856,109, Jan. 5, 1999, Homolog of rat elastase IV derived from human pancreas; Scott M. Braxton, et al., 435/7.6; 530/350 [IMAGE AVAILABLE]
25. 5,854,041, Dec. 29, 1998, Myoglobin with peroxidase activity; Gary D. Brayer, et al., 435/192; 530/385 [IMAGE AVAILABLE]
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27. 5,851,766, Dec. 22, 1998, Process for isolating chemically regulatable DNA sequences; John A. Ryals, et al., 435/6, 91.2 [IMAGE AVAILABLE]
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29. 5,843,715, Dec. 1, 1998, Human proteasome subunit proteins; Olga Bandman, et al., 435/69.1, 252.3, 320.1, 325; 536/23.5, 24.31 [IMAGE AVAILABLE]
30. 5,843,460, Dec. 1, 1998, Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides; Agnes Labigne, et al., 424/234.1; 435/6, 7.32, 7.9; 514/41, 234.5 [IMAGE AVAILABLE]
31. 5,840,484, Nov. 24, 1998, Comparative gene transcript analysis; Jeffrey J. Seilhamer, et al., 435/6 [IMAGE AVAILABLE]
32. 5,827,737, Oct. 27, 1998, In vitro activation of cytotoxic T cells; Per A. Peterson, et al., 435/348, 346; 530/394 [IMAGE AVAILABLE]
33. 5,824,656, Oct. 20, 1998, Recombinant and native group B eimeria tenella immunogens useful as coccidiosis vaccines; Helen Profous-Juchelka, et al., 514/44; 536/23.5 [IMAGE AVAILABLE]
34. 5,821,104, Oct. 13, 1998, Tripeptidyl aminopeptidase; Kaj Andre Holm, et al., 435/225, 69.1, 252.3, 254.3, 320.1; 536/23.2 [IMAGE AVAILABLE]

35. 5,814,478, Sep. 29, 1998, Tyrosine kinase receptors and ligands; David M. Valenzuela, et al., 435/69.1, 69.7, 252.3, 320.1, 325; 530/300, 350; 536/23.1, 23.5 [IMAGE AVAILABLE]
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37. 5,804,693, Sep. 8, 1998, Chemically regulatable and anti-pathogenic DNA sequences and uses thereof; Thomas D. Gaffney, et al., 800/301; 424/9.2; 435/29, 419; 800/298, 300, 302 [IMAGE AVAILABLE]
38. 5,804,684, Sep. 8, 1998, Method for isolating nucleic acids; Xing Su, 536/25.4; 422/70, 101; 435/270; 536/25.41, 25.42 [IMAGE AVAILABLE]
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41. 5,789,214, Aug. 4, 1998, Method of inducing gene transcription in a plant; John A. Ryals, et al., 800/288; 435/418, 419; 536/23.6, 24.1 [IMAGE AVAILABLE]
42. 5,789,198, Aug. 4, 1998, Human leptin receptor-related protein; Ingrid E. Akerblom, 435/69.1, 320.1, 325; 536/23.5 [IMAGE AVAILABLE]
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47. 5,777,200, Jul. 7, 1998, Chemically regulatable and anti-pathogenic DNA sequences and uses thereof; John A. Ryals, et al., 435/6, 91.51 [IMAGE AVAILABLE]
48. 5,776,738, Jul. 7, 1998, Method of human prohibitin gene analysis; Robert Thomas Dell'Orco, Sr., et al., 435/91.2, 6 [IMAGE AVAILABLE]
49. 5,773,580, Jun. 30, 1998, Human protein kinase c inhibitor homolog; Janice Au-Young, et al., 530/350 [IMAGE AVAILABLE]
50. 5,770,405, Jun. 23, 1998, Isolation and composition of novel glycosidases; Sharon T. Wong-Madden, et al., 435/74, 200, 208, 910; 536/23.2 [IMAGE AVAILABLE]
51. 5,767,369, Jun. 16, 1998, DNA sequences encoding SAR8.2 proteins and

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53. 5,747,319, May 5, 1998, Human mRNA editing enzyme; Janice Au-Young, et al., 435/199, 243, 252.3, 254.11, 320.1, 325, 348, 410, 419; 536/23.2 [IMAGE AVAILABLE]
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55. 5,738,991, Apr. 14, 1998, Method of detecting elastase IV; Scott Michael Braxton, et al., 435/6, 320.1, 325; 536/23.1, 23.2, 23.5, 24.31 [IMAGE AVAILABLE]
56. 5,736,347, Apr. 7, 1998, Nucleic acids of Rochalimaea henselae and methods and compositions for diagnosing Rochalimaea henselae and Rochalimaea quintana infection; Burt E. Anderson, et al., 435/7.32, 6, 975; 436/811; 530/387.1, 388.4, 389.5, 391.1, 391.3 [IMAGE AVAILABLE]
57. 5,723,318, Mar. 3, 1998, DNA coding for megakaryocyte potentiator; Nozomi Yamaguchi, et al., 435/69.5, 71.1, 252.3, 320.1, 325; 530/351, 399; 536/23.1, 23.5, 24.3 [IMAGE AVAILABLE]
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59. 5,707,812, Jan. 13, 1998, Purification of plasmid DNA during column chromatography; Nancy Horn, et al., 435/6, 252.3, 320.1; 536/23.1 [IMAGE AVAILABLE]
60. 5,705,149, Jan. 6, 1998, Use of interleukin-7 to stimulate proliferation of hematopoietic cell precursors; Anthony E. Namen, et al., 424/85.2; 435/69.52; 514/2, 8, 12, 885; 530/351 [IMAGE AVAILABLE]
61. 5,702,936, Dec. 30, 1997, Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods; Joseph A. Beavo, et al., 435/196, 69.1, 252.3, 320.1, 325 [IMAGE AVAILABLE]
62. 5,689,044, Nov. 18, 1997, Chemically inducible promoter of a plant PR-1 gene; John A. Ryals, et al., 800/301; 435/320.1, 418, 419; 536/23.6, 24.1; 800/300, 302 [IMAGE AVAILABLE]
63. 5,688,938, Nov. 18, 1997, Calcium receptor-active molecules; Edward M. Brown, et al., 536/23.5; 435/7.1, 69.1, 252.3, 320.1; 530/300, 324, 326, 350; 536/23.1, 24.31 [IMAGE AVAILABLE]
64. 5,686,597, Nov. 11, 1997, Thrombin receptor homolog; Roger Coleman, et al., 536/23.5; 435/2, 7.21, 69.1, 252.3, 254.11, 325, 348, 361, 365, 369 [IMAGE AVAILABLE]
65. 5,674,747, Oct. 7, 1997, Viral vector coding for juvenile hormone esterase; Bruce D. Hammock, et al., 435/320.1; 424/93.2; 435/196, 348 [IMAGE AVAILABLE]
66. 5,660,984, Aug. 26, 1997, DNA isolating apparatus comprising a

- non-porous DNA binding, **anion exchange** resin and methods of use thereof; Thomas E. Davis, et al., 435/6; 210/323.2, 455, 638, 639, 641, 654, 661; 435/30, 287.2, 288.1, 288.6 [IMAGE AVAILABLE]
67. 5,654,414, Aug. 5, 1997, Chemically inducible promoter of a cucumber chitinase/lysozyme gene; John A. Ryals, et al., 800/279; 435/69.1, 200, 206, 320.1; 536/23.6; 800/317.3 [IMAGE AVAILABLE]
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69. 5,648,238, Jul. 15, 1997, Human protein kinase C inhibitor homolog; Janice Au-Young, et al., 435/69.2, 252.3, 254.2, 320.1, 325, 348, 419; 536/23.5 [IMAGE AVAILABLE]
70. 5,643,776, Jul. 1, 1997, Insect diagnostic and control compositions; Bruce D. Hammock, et al., 435/196; 424/93.2; 435/320.1, 348; 514/44; 536/23.2, 23.5 [IMAGE AVAILABLE]
71. 5,639,616, Jun. 17, 1997, Isolated nucleic acid encoding a ubiquitous nuclear receptor; Shutsung Liao, et al., 435/7.1, 69.1, 252.3, 320.1; 536/23.5, 24.3 [IMAGE AVAILABLE]
72. 5,614,395, Mar. 25, 1997, Chemically regulatable and anti-pathogenic DNA sequences and uses thereof; John A. Ryals, et al., 435/6, 4, 69.1, 468; 536/24.1; 800/279 [IMAGE AVAILABLE]
73. 5,610,294, Mar. 11, 1997, Substituted cyclic carbonyls and derivatives thereof useful as retroviral protease inhibitors; Patrick Y. Lam, et al., 540/492, 489, 542, 545, 553, 575; 564/13 [IMAGE AVAILABLE]
74. 5,567,602, Oct. 22, 1996, Recombinant production of chymase; James M. Clark, et al., 435/226, 69.1, 69.7, 69.8, 71.2, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]
75. 5,561,064, Oct. 1, 1996, Production of pharmaceutical-grade plasmid DNA; Magda Marquet, et al., 435/320.1, 91.1, 259 [IMAGE AVAILABLE]
76. 5,529,921, Jun. 25, 1996, In vitro activation of cytotoxic t-cells using insect cells expressing human class I MHC and .beta.2-microglobulin; Per A. Peterson, et al., 435/375, 252.3, 320.1 [IMAGE AVAILABLE]
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